

10/009792

SEQUENCE LISTING

<110> Korea Advanced Institute of Science and Technology

<120> E coli Secreting Human
Granulocyte Colony Stimulating Factor(hG-CSF)

<130> P0132/KAIST/PCT

<150> KR 2000-0017052

<151> 2000-03-31

<160> 27

<170> KopatentIn 1.71

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<213> Artificial Sequence

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<223> oligopeptide

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29

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32

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<210> 16
<211> 41
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<210> 17
<211> 507
<212> DNA

<213> Homo sapiens

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agcttctctgc tcaagtgctt agagcaagtg aggaagatcc agggcgatgg cgcagcgctc 180
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<211> 615

<212> DNA

<213> Homo sapiens

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agcttctctgc tcaagtgctt agagcaagtg aggaagatcc agggcgatgg cgcagcgctc 180
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<212> PRT

<213> Homo sapiens

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 Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val
 Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys
 Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser
 Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser
 Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp
 Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro
 Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe
 Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe
 Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro

<210> 20
 <211> 531
 <212> DNA
 <213> Homo sapiens

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 aagctgtgcc accccgagga gctggtgctg ctgggacact ctctgggcat cccctgggct 180
 cccctgagca gctgccccag ccaggccctg cagctggcag gctgcttgag ccaactccat 240
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 ttgcctctg ctttccagcg ccgggcagga ggggtcctag ttgcctccca totgcagagc 480
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<210> 21
<211> 175
<212> PRT
<213> Homo sapiens

<400> 21
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Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu

Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu

Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser

Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His

Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile

Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala

Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala

Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala

Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser

Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro

<210> 22
<211> 45
<212> DNA
<213> Homo sapiens

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45

<210> 23
<211> 15
<212> PRT
<213> Homo sapiens

<400> 23

Met Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu

<210> 24
<211> 135
<212> DNA
<213> Homo sapiens

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ttctgctca agtgc 135

<210> 25
<211> 45
<212> PRT
<213> Homo sapiens

<400> 25
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Met Ser Ile Ser Met Phe Ser Ala Thr Ala Ser Ala Thr Pro Leu Gly

Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Cys

<210> 26
<211> 180
<212> DNA
<213> Homo sapiens

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<211> 60
<212> PRT
<213> Homo sapiens

<400> 27
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Met Ser Ile Ser Met Phe Ser Ala Thr Ala Ser Ala Ala Gly Pro His

His His His His His Ile Glu Gly Arg Thr Pro Leu Gly Pro Ala Ser

Ser Leu Pro Gln Ser Phe Leu Leu Lys Cys Leu Glu